

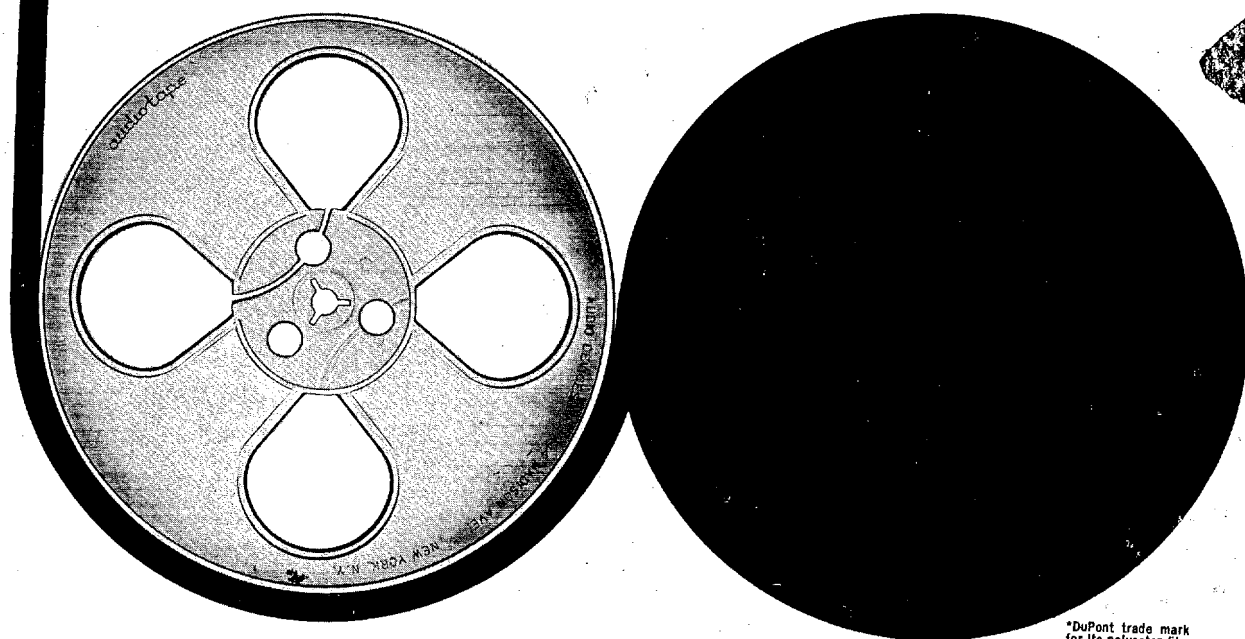
# audiotape

PROFESSIONAL QUALITY, SPLICE-FREE  
ON THE CONVENIENT C-SLOT REEL

TRADE MARK

TRIPLE  
RECORDING  
ON "TEMPERED" MYLAR\*

25 YEAR RE-REVIEW



\*DuPont trade mark  
for its polyester film

MAGNETIC RECORDING TAPE MANUFACTURED BY AUDIO DEVICES, INC., NEW YORK, N.Y.

*it speaks for itself*

REEL NO

BX6733

**MONAURAL:** Single Track ☐

Dual Track ☐

**STEREO**

Two Track ☐

## Four Track

**GUARANTEE:** Audiotape is manufactured by skilled technicians with great care. Audio Devices is sure that you will be satisfied with the results obtained with this magnetic tape and we assure you satisfaction with the following guarantee:

This magnetic tape will be replaced if defective in manufacture, labeling or packaging. There is no other warranty or liability, expressed or implied.

**AUDIO DEVICES, INC.**

235 East 42nd Street, New York, N. Y. 10017

U. S. Patents: 2692736 2700367 2714871



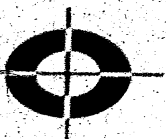
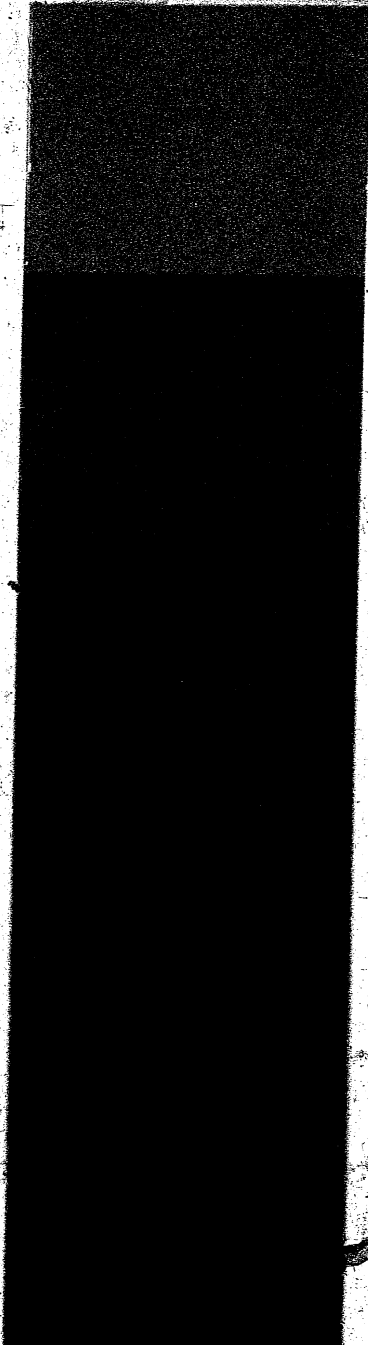
6733  
START  
FS 51  
29 OCT 67

6733  
5 TART  
FS 51  
29 Oct 67

# AY SCALE

SERIES V

.70 1.00 1.30 1.60 1.90



C

Red-Filter Negative Cyan Printer

.00 .10 .20 .30 .50

KODAK GR

**TOP SECRET**



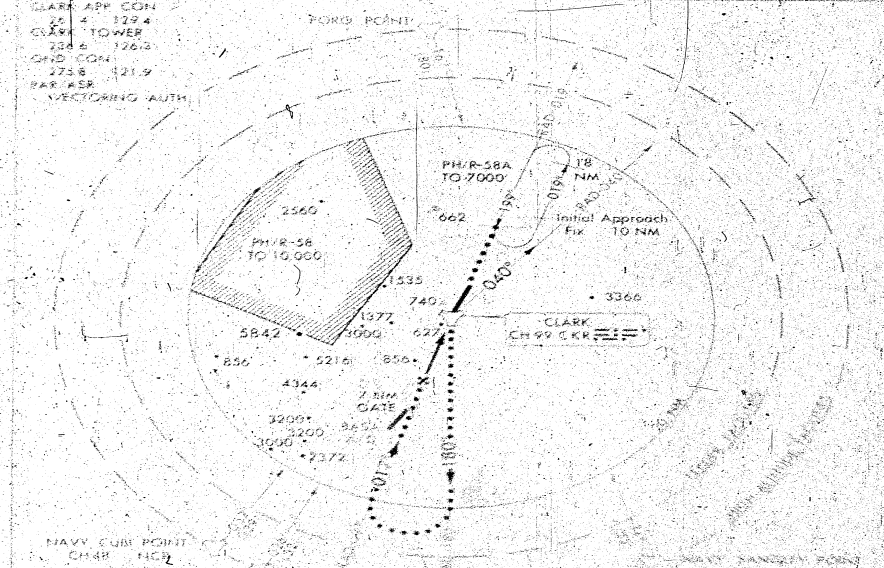
54

JAL 1880 (USAF)

CLARK AR

LUZON I REE OF THE PHILIPPINES

CLARK APP COM 129.4  
CLARK TOWER 126.2  
CHD COM 121.9  
RARRASH  
VECTERING AUTH



NAVY CURE FORM 10-1  
CH 77

1972-1973

Right turn lane  
within 25 ft.

RAD 180  
5 MAY 68

1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 26

FL110

RAD-107  
7 NM

[illegible]

100

Straight in  
Circling \*  
\* Circling up East

LANDING  
1000 MSL

6001

100

# TACAN-1

**CLARK**

# START

# ROUTE

5733

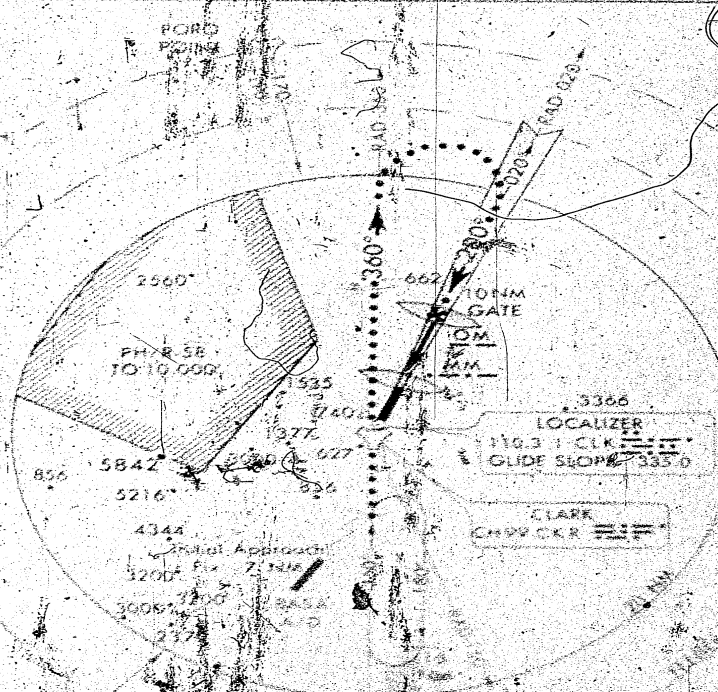
PG 51  
29 Oct. 67

# TACAN-2/ILS

JAL 1880 (USAF)

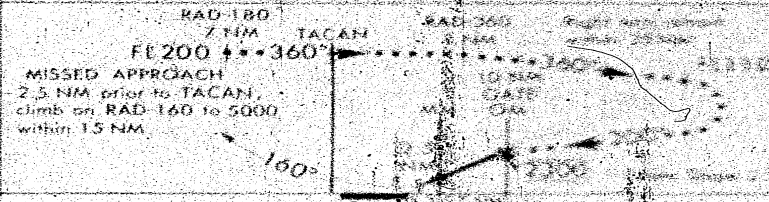
CLARK AB  
LUZON I. REP. OF THE PHILIPPINES

CLARK AFB CON  
2614 129.4  
CLARK TOWER  
2306 126.2  
GND CON  
2718 121.9  
PAR-ASS  
VECTORED AUTH.



NAVY CUBI POINT  
CH 48 MCR

NAVY CUBI POINT  
TLV 80  
PA 7000  
EMERG SAFE ALT 100 NM 11500

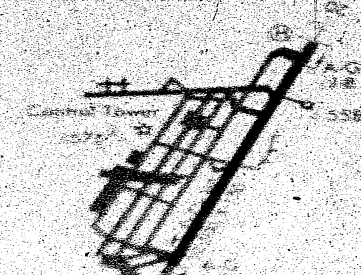


LANDING MINIMA	
Str-in-ILS	700 MSL
Str-in-TACAN	900 MSL
Circling	1000 MSL
Str-in-LOC	800 MSL

\*Circling East only.

MIN SAFE ALT 25 NM 6800

FIELD ELEV 475



# TACAN-2/ILS

CLARK

CLARK









KADENA AB  
KADENA, OKINAWA I., RYUKYU ISLANDS

MISSED APPROACH  
 AT TACAN climb on  
 243 to 2000 A150 MA  
 after TACAN turn left to  
 intercept RAD 140 and  
 hold.

DATE: 12-15-2000

— 100 —

1. The first part of the document is a list of names and addresses, which are arranged in a columnar format. The names are written in a cursive script, and the addresses are written in a more formal, printed style. The list includes names such as "John Smith", "Mary Jones", and "Robert Brown", along with their respective addresses in various cities and states.

Sample #	600 MSF
Cycling #	800 MSF
*Cycling to East only	

TACAN-2 RWY 23

# KADENA

# KADENA

TACAN/ILS-2 RWY 05

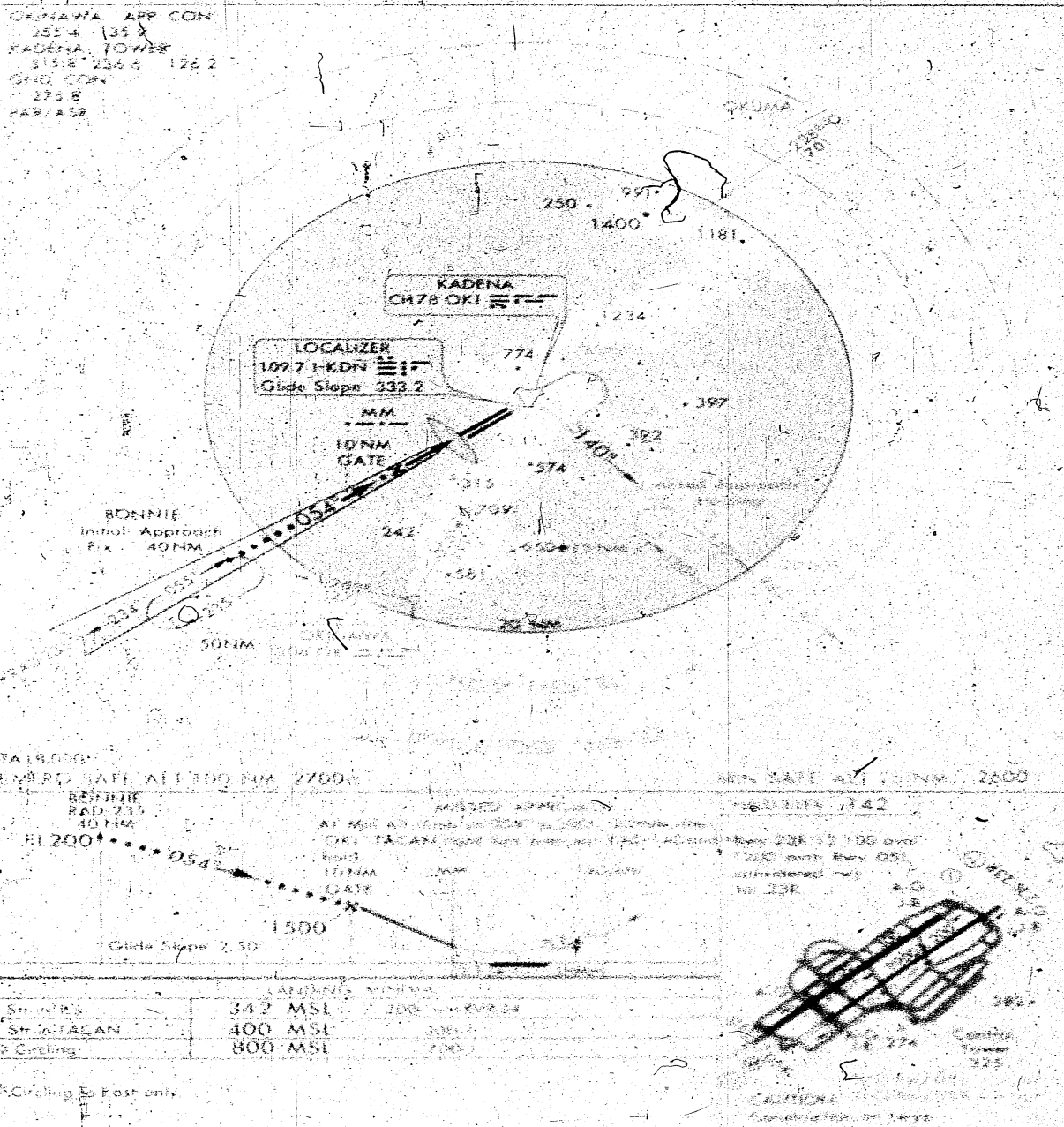
100

JAL 1457 (USAF)

KADENA AB

KADENA, OKINAWA I., RYUKYU ISLANDS

OKINAWA APP CON  
255.4 135.8  
KADENA TOWER  
315.8 236.6 126.2  
GND CON  
275.8  
FAB/ASB



TACAN/ILS-2 RWY 05

JAL 1457 (USAF)

KADENA AB

# KADENA

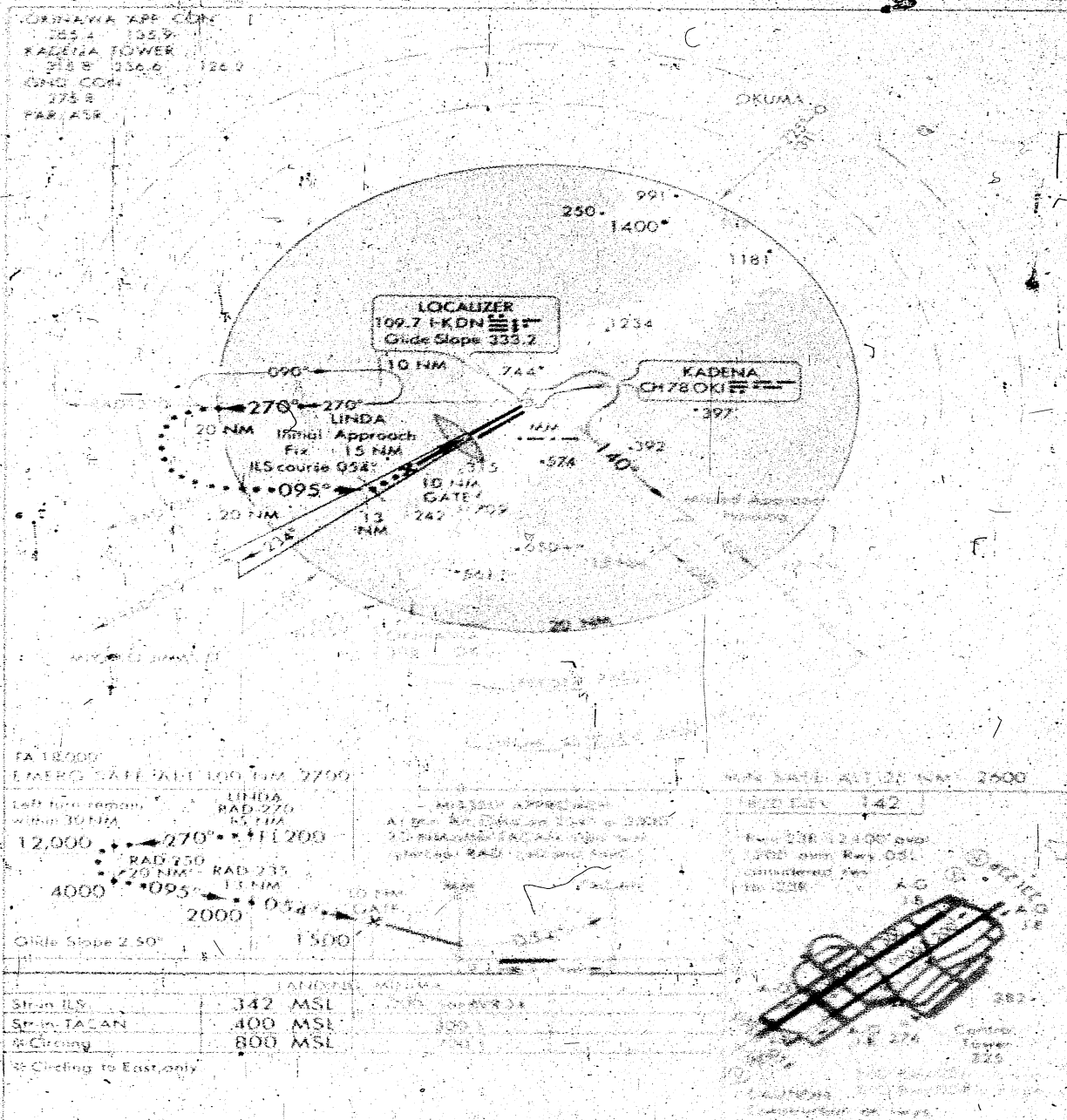
# KADENA

TACAN/ILS-4 RWY 05

JAL 1457 (USAF)

KADENA, OKINAWA, RYUKYU ISLANDS

OKINAWA APP CORR  
255.4 135.9  
KADENA TOWER  
218.8 136.6 124.7  
KING COR  
173.8  
FAB ASS



**Page Denied**



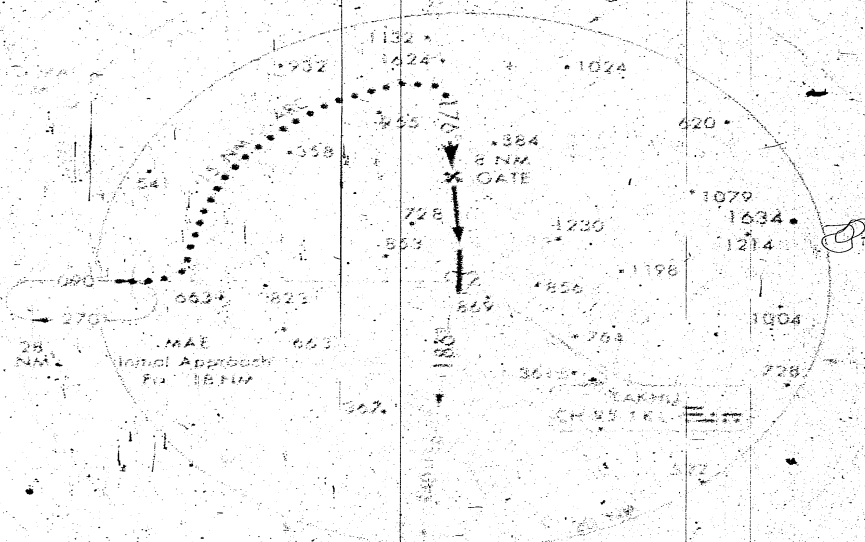




TARIFF APP CON  
 230.2 230.8 119  
 TARIFF POWER  
 230.5 230.6 126  
 CASH CON  
 230.3  
 PAY APP

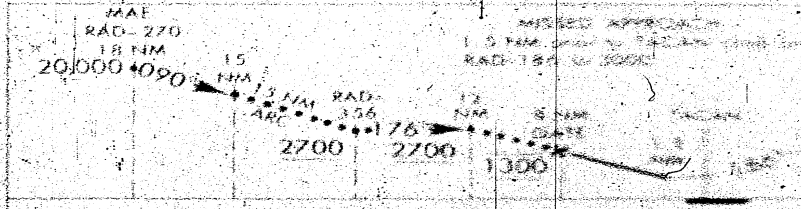
194

TAKHLI A/D

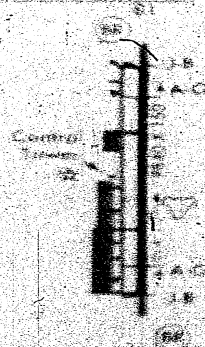


MAE  
RAD-270  
18 NM  
20.00040-

SAFETY ALT 25 NM 2700  
WIND 112



✓	LANDING MINIMA
Straight-in	400 MSL
Circling	NOT AUTHORIZED



~~TACAN-2 RWY 18~~

15

TAKHLI A/D

# TAKHLI

# TAKHLI

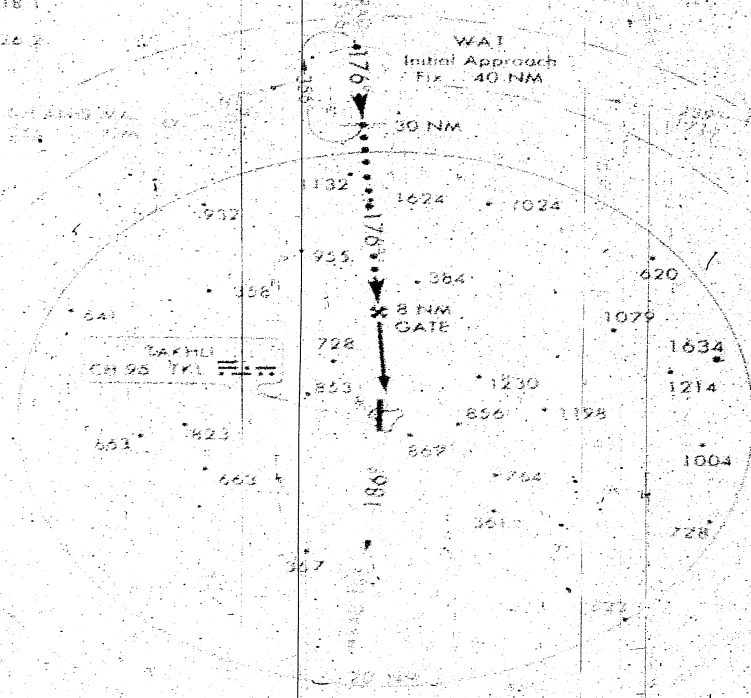
TACAN-4 RWY18

TAKHLI A/D  
TAKHLI, THAILAND

TAKHLI APP-CON  
FREQ 118.1  
TAKHLI TOWER  
FREQ 123.6  
GND CON  
FREQ 127.1  
FAX 155

JAL 2627 (RTAI)

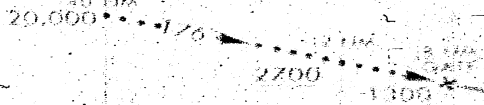
WAT  
Initial Approach  
Fix 40 NM



EMERG SAFE ALT 100 NM 8200

EMERG SAFE ALT 25 NM 2700

WAT  
RAD 150  
40 NM



400 MSL

TACAN-4 RWY18

# TAKHLI

TAKHLI A/D

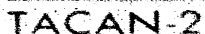




T'AO-YUAN A/D

141 2234 (USAF)

TACH-YUAN TAIWAN REP OF CHINA



100-44388-10

**TAOYUAN**

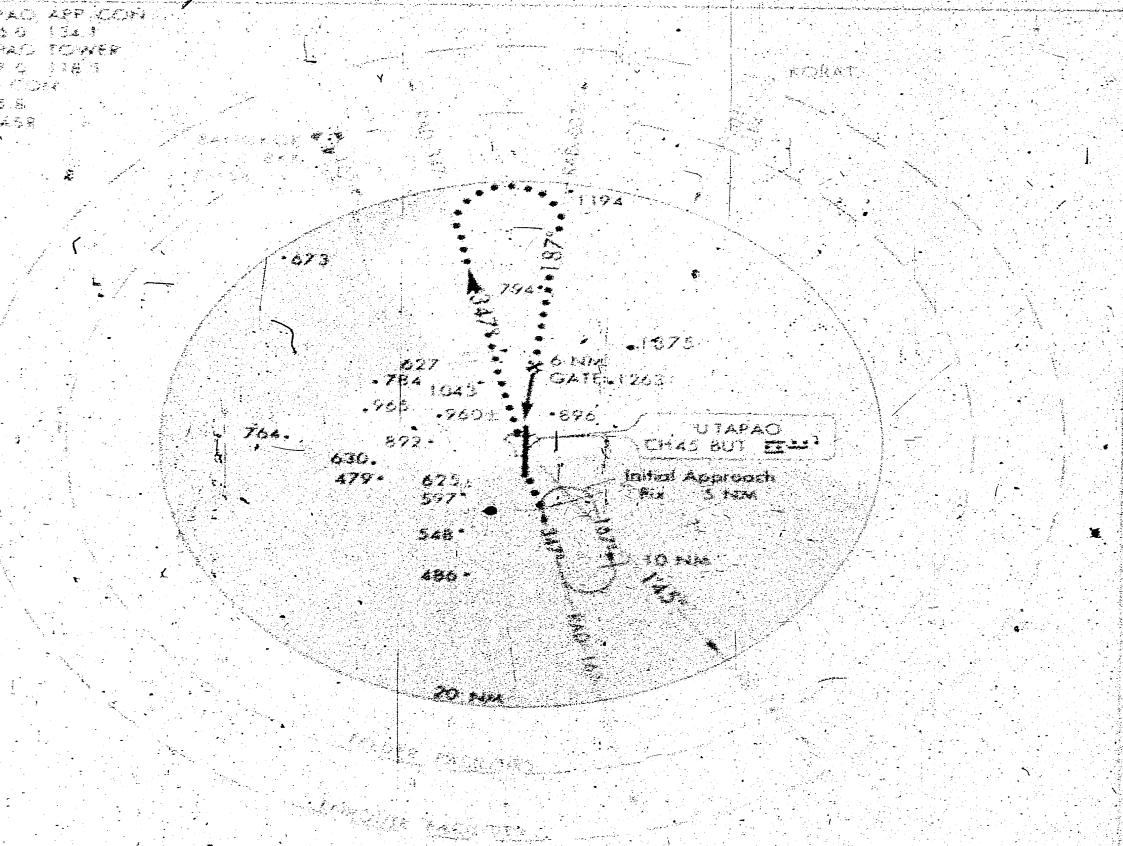


# TACAN-2 RWY 18

Lat 2622 (USAT)

UTAPAO A/D  
UTAPAO CHANGWAT KAYODIL THAILAND

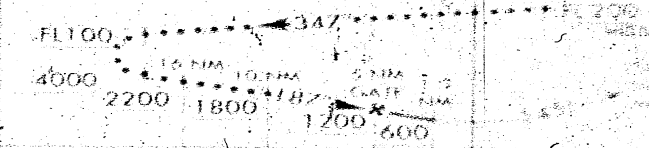
UTAPAO APP CON  
393.0 134.1  
UTAPAO TOWER  
127.5 118.1  
QNC COM  
127.5  
#48/458



EMERG SAFE ALT 100 NM 7600

NON SAFE ALT 25 NM 3400

Flight term remain within 20 NM



600 MSL  
NOT AUTHORIZED



TACAN-2 RWY 18

U TAPAO

UTAPAO A/D

## TACAN-2 RWY 36

214

JAL 2672 (UJAF)

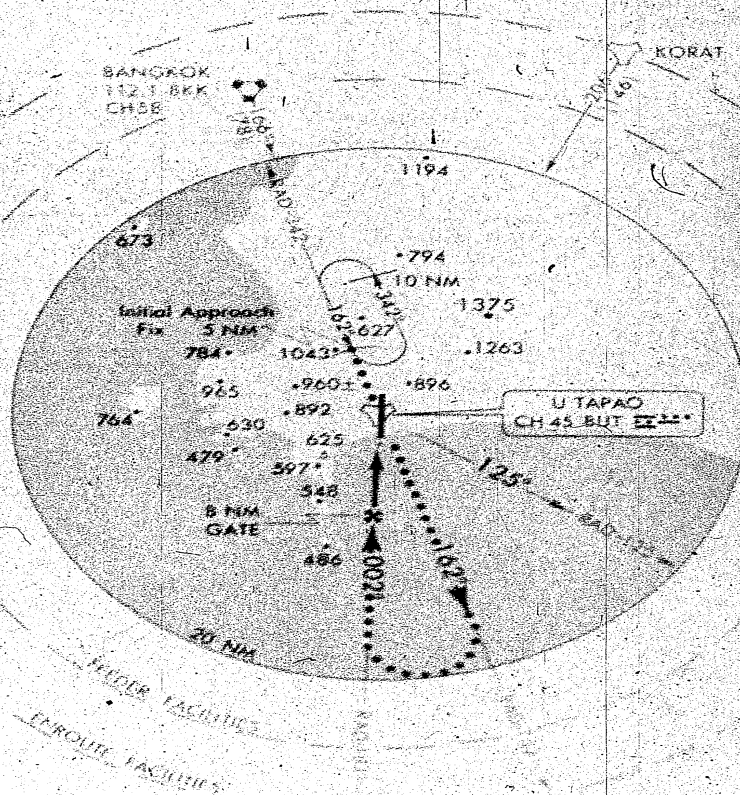
U TAPAO A/D

U TAPAO, CHANGWAT RAYONG THAILAND

U TAPAO APP CON  
395.0 134.1  
U TAPAO TOWER  
227.0 118.1  
GND CON  
275.8  
FAR ASS

BANGKOK  
112.1 BKK  
CH58

KORAT



EMERG SAFE ALT 100 NM 7600

MIN SAFE ALT 15 NM 3400

RAD 342  
3 NM TACAN

FL 200

MISSED APPROACH  
2.5 NM prior to TACAN  
right turn, climb on RAD  
125 to 3000 within  
20 NM

125°

400

LANDING MINIMA

Straight-in 400 MSL  
Circling NOT AUTHORIZED

TACAN-2 RWY 36

U TAPAO A/D

U TAPAO

## TACAN-4 RWY18

JAL-2672 (USAF)

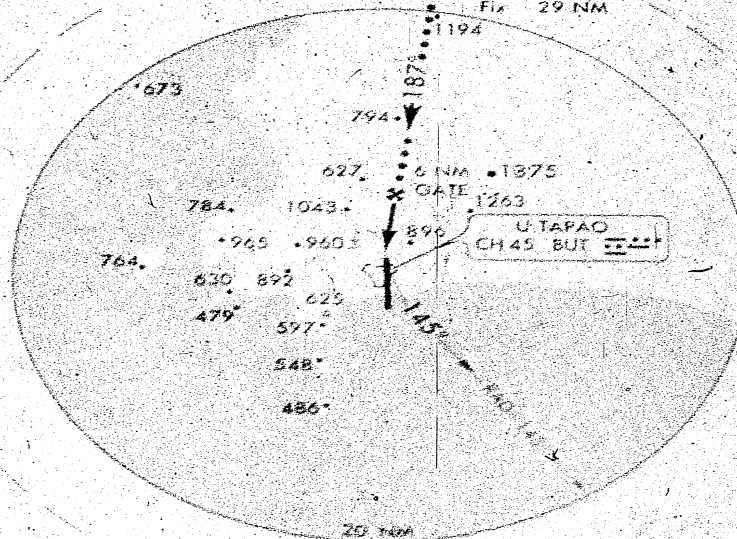
U TAPAO A/D  
U TAPAO, CHANGWAT RAYONG, THAILAND

U TAPAO APP CON  
395.0 134.1  
U TAPAO TOWER  
227.0 118.1  
GND CON  
275.8  
PAR ASS

BANGKOK  
112.1 BKK  
0152

34 NM

ALFA  
Initial Approach  
Fix 29 NM

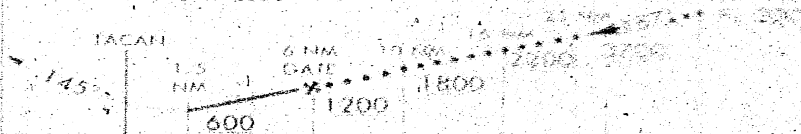


EMERG SAFE ALT 100 NM 17600

MIN SAFE ALT 20 NM 8400

MISSED APPROACH  
1.5 NM prior to TACAN left turn  
climb on RAD-145 to 3000

APPROX 55



LANDING MINIMA	
Straight-in	600 MSL
Circling	NOT AUTHORIZED

TACAN-4 RWY18

2013

U TAPAO A/D

U TAPAO



POS  
TIME 1119.128  
DTG 900000  
FUEL 32.7237

POS 34  
DANANG  
DAG 37  
SF 295

HUE  
393.69

POINT OF SAFE RETURN  
WITH 12,000# AT H/P  
DTG 170 NM

HOW DOES IT  
TIME 1110.129  
DTG 373 NM  
FUEL 31.4284  
ALT 16.5  
TH 241°  
MH 245°

SIP (ON)  
HF FREQ  
CHANGE

A CODE BEFORE  
AND AFTER EACH  
HF FREQ CHANGE

TO POS 04  
13-47  
108-305  
DTG 673 NM  
ETA 1+19  
ETE 1+19  
TH 243°  
MH 243°

POS 29  
CLARK  
CKR 99  
KS 397

RIT  
DTG 500 NM

POS 03  
TIME 1159.018  
DTG 5 NM  
FUEL 43.9337

LAO  
20/5

START CC  
TIME 1158.117  
DTG 5 NM  
FUEL 44.8346  
ALT 13.2  
TH 236°  
MH 236°

EWS "ON"  
FL 500

TO POS 03  
19-13N  
118-49E  
DTG 379 NM  
ETA 1+59  
ETE 1+19  
TH 236°  
MH 236°

FUEL TO CONT  
57,100#

POS 02  
EAR  
22-40N  
124-30E  
T.O. +37

ABORT FUEL  
11,600#  
DTG 87 NM

POS 01 (38)  
ARC  
24-13N  
122-52E  
TIME 1221

1  
DREET 68/79  
+21  
PHI 17(284.0)  
DTG 18(296.0)  
180 30065/3

KW  
2415

CHIA-I  
23-28N  
120-23E  
KU 55  
KU 365

C.O.K.  
24-16N  
120-37E  
MO 50  
LO 305

TACAN - OFF  
AR BCN - OFF  
ARC 50 - INT  
MIC SEL - OFF  
IFF/SIF - OFF

POS 31  
TAINAN  
WS 101  
NN 235

MA KUNG  
23-34N  
119-37E  
BM 94  
BM 209

YU  
230

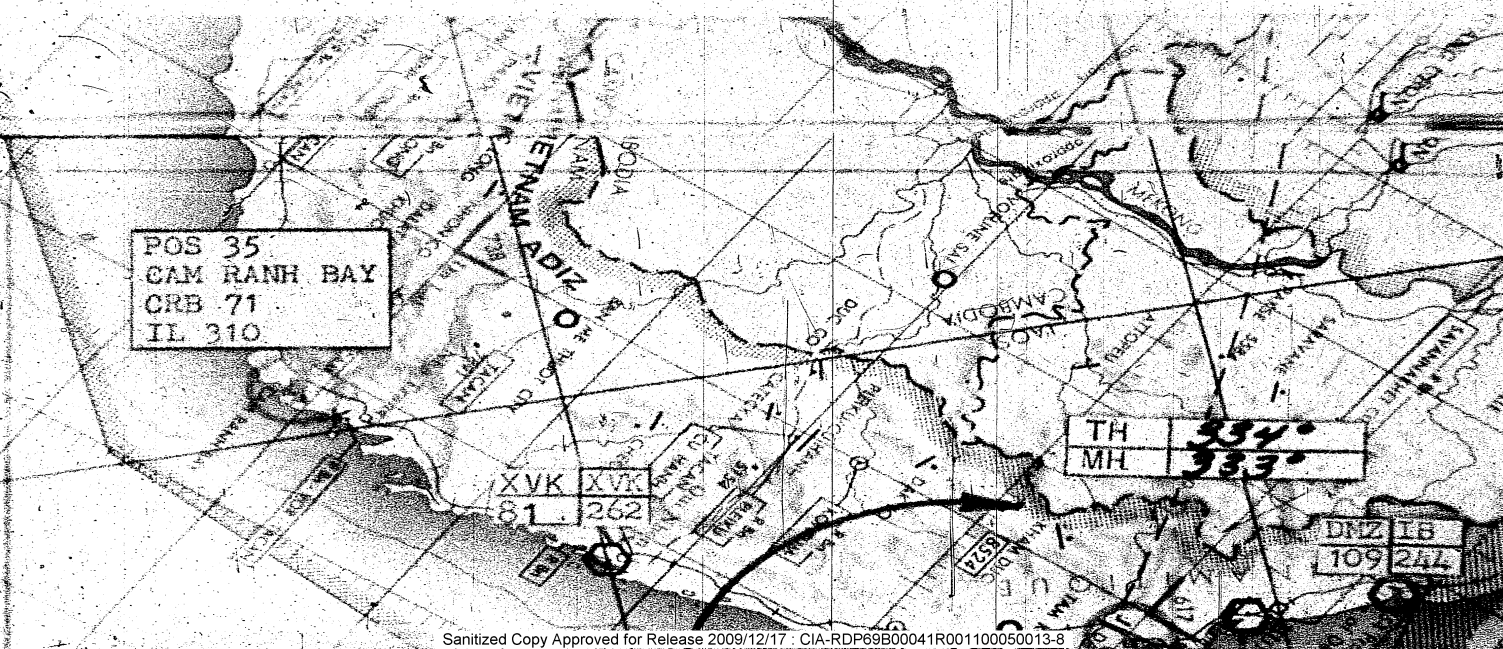
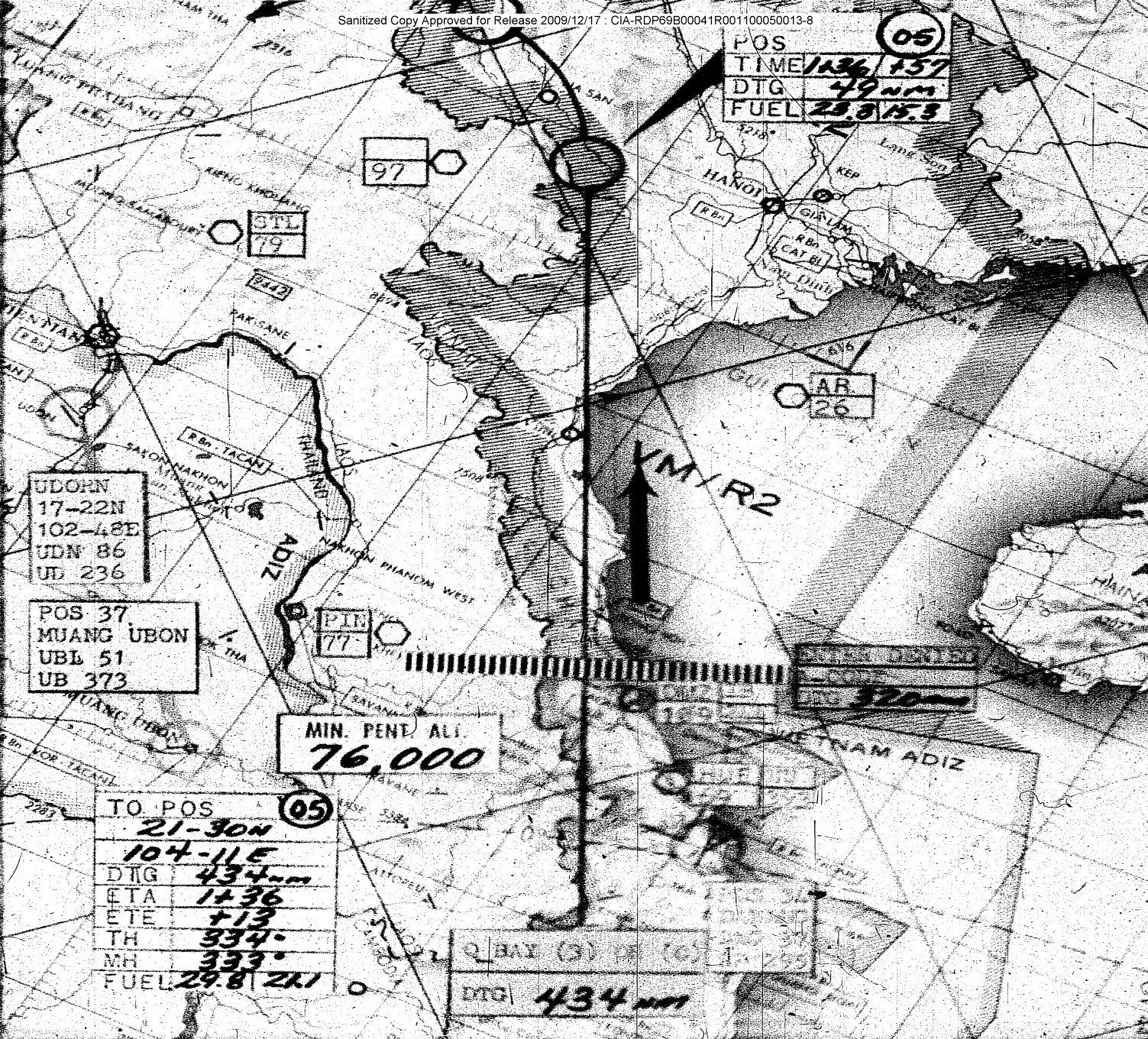
POS 35  
HSIN CHU  
FO 92  
FO 375

POS 28  
TAO HUAN  
GM 105  
GM 400

PACKAGE CHECK  
ALT: ABOVE 25.0  
Q-BAY: "3"  
OPNL CHECK  
Q-BAY: "2"  
"A" CODE  
TH 222°  
MH 224°  
DTG 156 NM

POS 00  
26-21N  
127-45E

POS 00  
26-21N  
127-45E  
IFF/SIF - "OFF"





U-TAPAO  
BUT 45  
BT 414

POS  
END AR  
TIME 2:17

TH 019°  
MH 019°

ABORT FUEL  
UT 13,000#  
TAK 9,000#  
DTG 125 NM

POS 32  
KORAT  
KRT 125  
KT 230

POS 30  
TAKHLI  
TKL 95  
TL 284

POS 07 59  
ARCP  
TIME 1:56 / 1:16  
FUEL 17.7 / 10.1

UDORN  
17-22N  
102-48E  
UDN 86  
UD 236

ARCP TO TAKHLI  
161° / 112 NM

VTN  
405

CM  
255

EXIT DENIED  
CODE  
DTG 175 nm

CR  
277

STL  
79

START DESCENT  
TIME 1:42 / 1:01  
DTG 260 nm  
FUEL 19.9 / 12.2

TACAN -ON  
ARC 50 -ON  
AR BGN -ON  
IFF/SIF-OFF

A/R # 2  
CALL  
SIGN GHOST 41/42/43  
ARCT 1:56  
PRI CH 19 (389.0)  
SEC CH 20 (394.0)  
ARC 50 CODE 30065/3

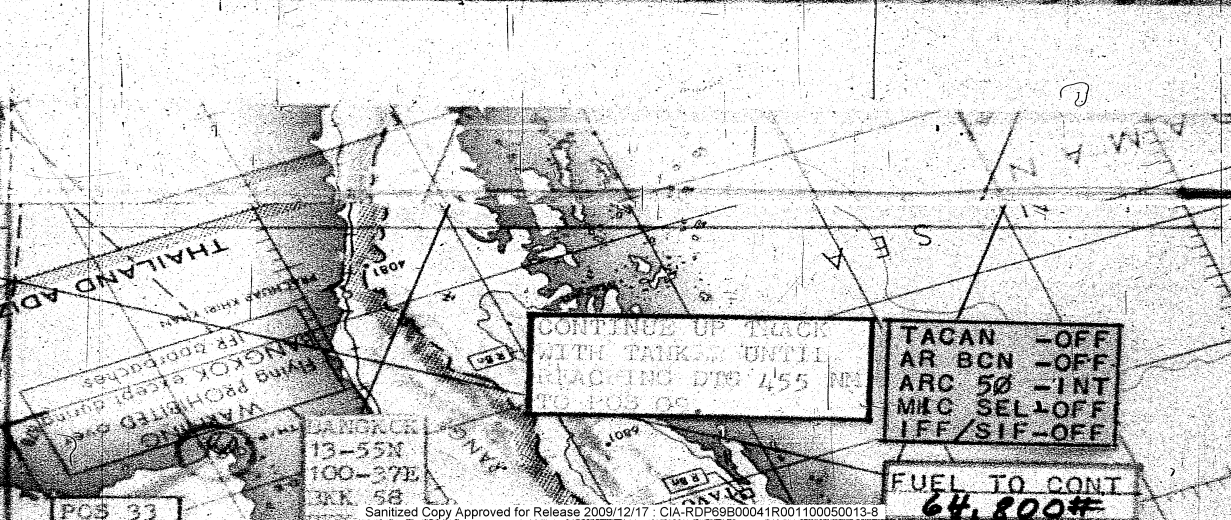
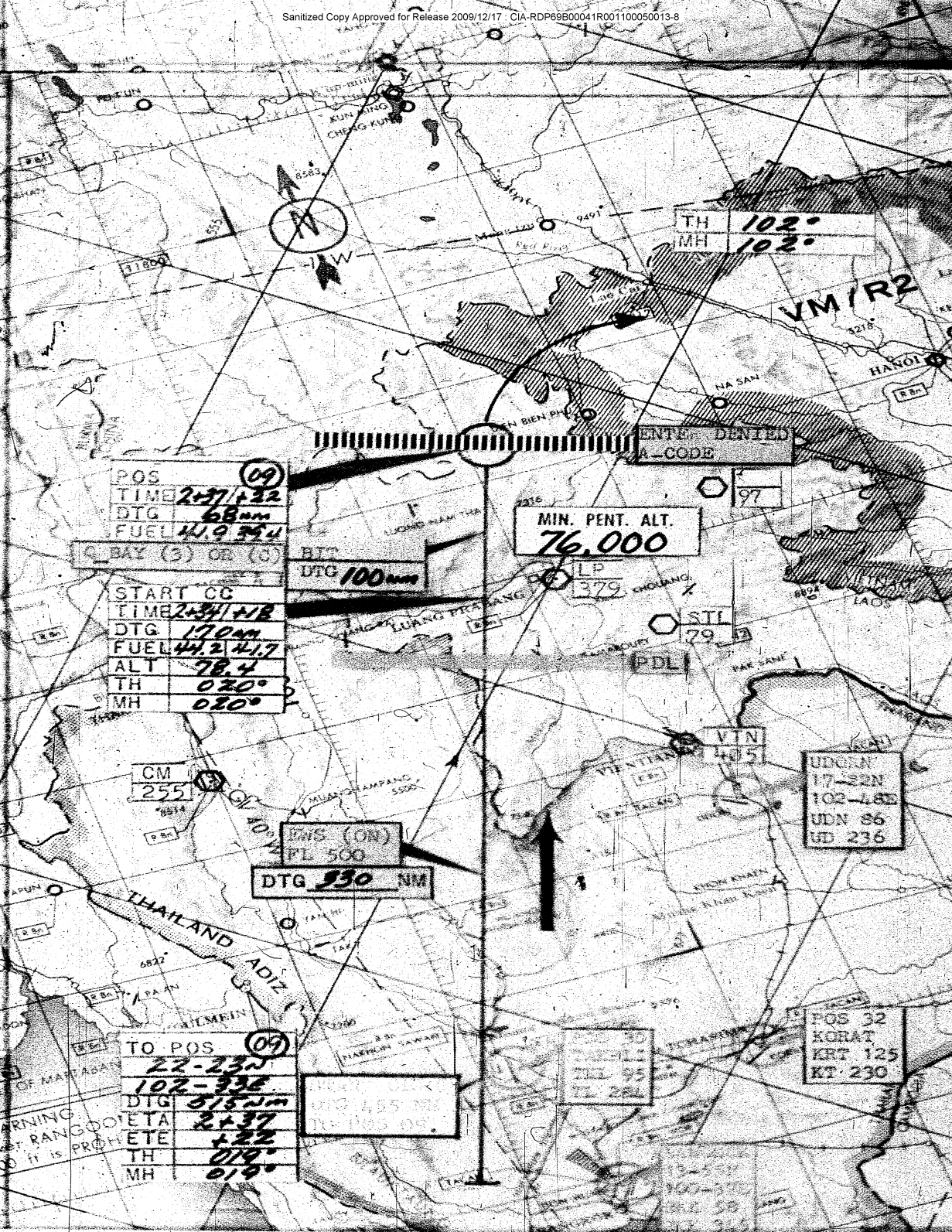
TO POS 07 59  
UT 17,000#  
TAK 9,000#  
DTG 264 nm  
ETA 1:56  
ETE 2:14  
TH 208°  
MH 208°  
FUEL 20.0 / 12.3

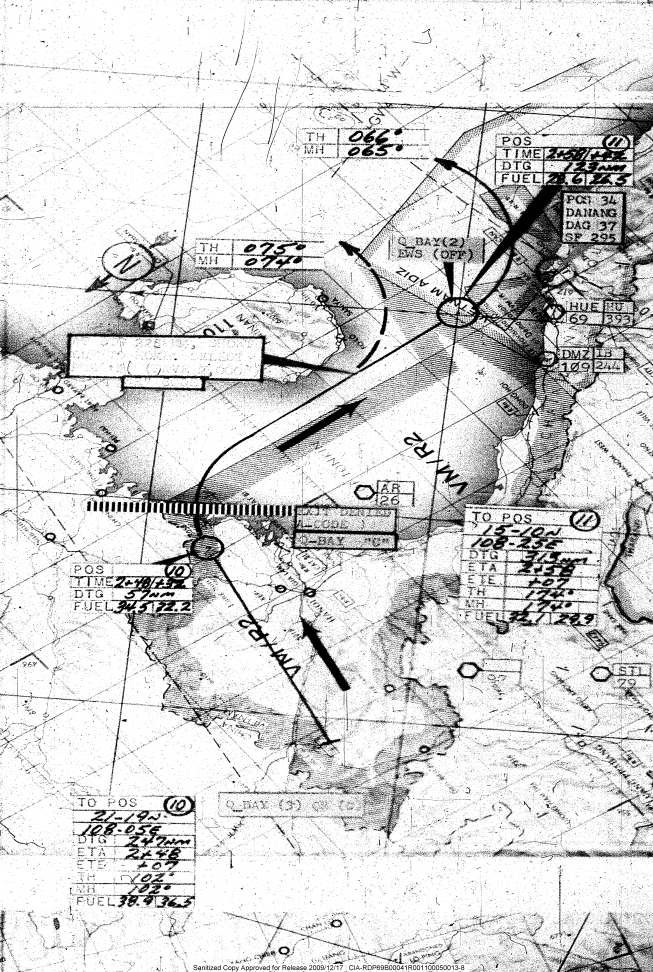
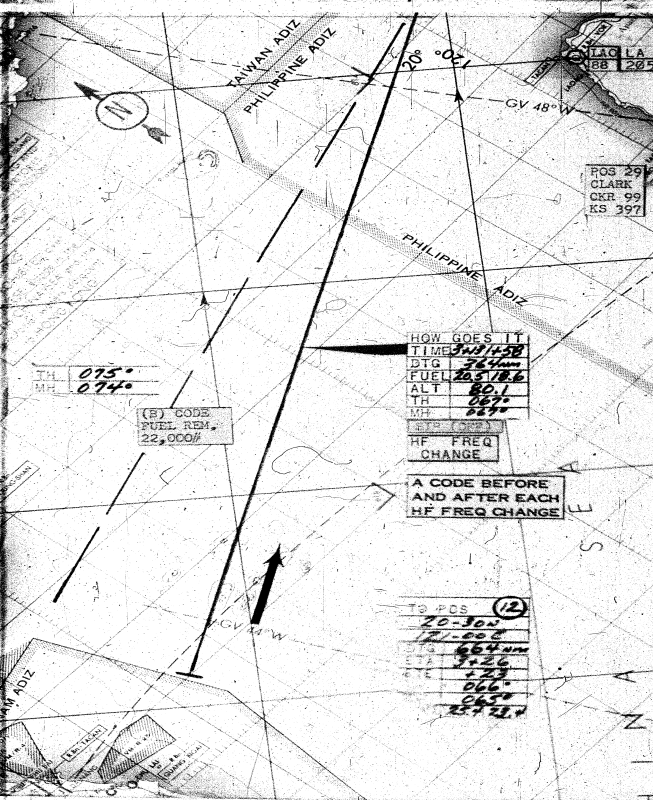
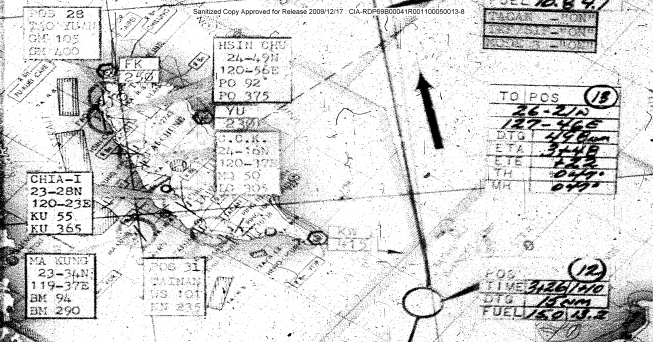
POS 21-31N 06  
102-26E  
DTG 49 nm

TH 208°  
MH 208°

POS 05  
TIME 1:36 / 1:57











# CLARK

## TACAN-3/ILS

56

IAL 1880 (USAF)

CLARK AB

LUZON I., REP. OF THE PHILIPPINES

CLARK APP CON  
261.4 129.4  
CLARK TOWER  
234.6 124.2  
GND CON  
275.8 121.9  
PAR/ASR  
(VECTERING AUTH)

PORT POINT

Initial Approach  
Fix 40 NM

50 NM

100 NM

150 NM

200 NM

250 NM

300 NM

350 NM

400 NM

450 NM

500 NM

550 NM

600 NM

650 NM

700 NM

750 NM

800 NM

850 NM

900 NM

950 NM

1000 NM

1050 NM

1100 NM

1150 NM

1200 NM

1250 NM

1300 NM

1350 NM

1400 NM

1450 NM

1500 NM

1550 NM

1600 NM

1650 NM

1700 NM

1750 NM

1800 NM

1850 NM

1900 NM

1950 NM

2000 NM

2050 NM

2100 NM

2150 NM

2200 NM

2250 NM

2300 NM

2350 NM

2400 NM

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2500 NM

2550 NM

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2750 NM

2800 NM

2850 NM

2900 NM

2950 NM

3000 NM

3050 NM

3100 NM

3150 NM

3200 NM

3250 NM

3300 NM

3350 NM

3400 NM

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3900 NM

3950 NM

4000 NM

4050 NM

4100 NM

4150 NM

4200 NM

4250 NM

4300 NM

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15400 NM

15450 NM

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15600 NM

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15800 NM

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15900 NM

15950 NM

16000 NM

16050 NM

16100 NM



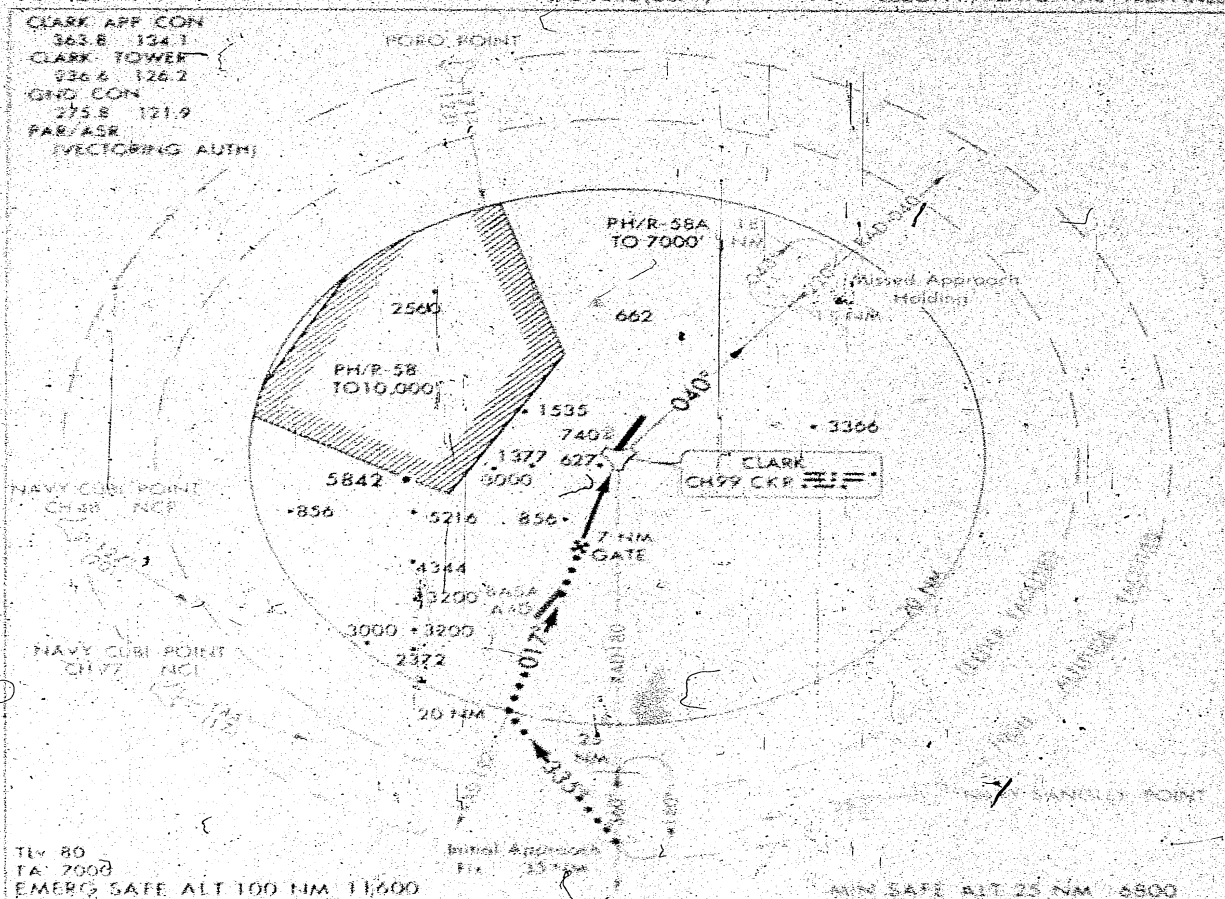
# CLARK

## TACAN-4

JAL 1880 (USAF)

CLARK AB  
LUZON I., REP. OF THE PHILIPPINES

CLARK APP CON  
363.8 134.1  
CLARK TOWER  
336.6 126.2  
GND CON  
275.8 121.9  
PAR/ASR  
(VECTERING AUTH)

Tlv 80  
TA 7000  
EMERG SAFE ALT 100 NM 11600

MIN SAFE ALT 25 NM 6800

FIELD ELEV 475

RAD 180  
35 NM  
FL 200 • 335 •RAD 197  
20 NM

8000 •

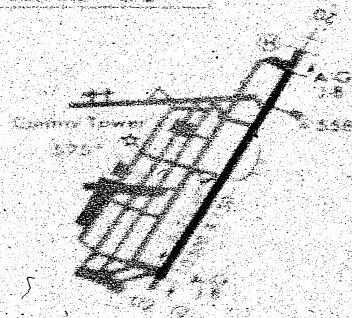
7 NM GATE

2300 •

MISSED APPROACH  
0.5 NM 8000 TACAN 1880  
RAD 180 35 NM 11600

TACAN

CLARK



LANDING MINIMA			
Straight-in	1000 MSL	500-1	
Circling*			
* Circling to East only			
TACAN to Missed Approach 0.5 hour			
Height	120	240	360
Min. Sec	0.15	0.13	0.12

## TACAN-4

15° 11' N 120° 33' E

57

LUZON I., REP. OF THE PHILIPPINES

CLARK AB

# CLARK

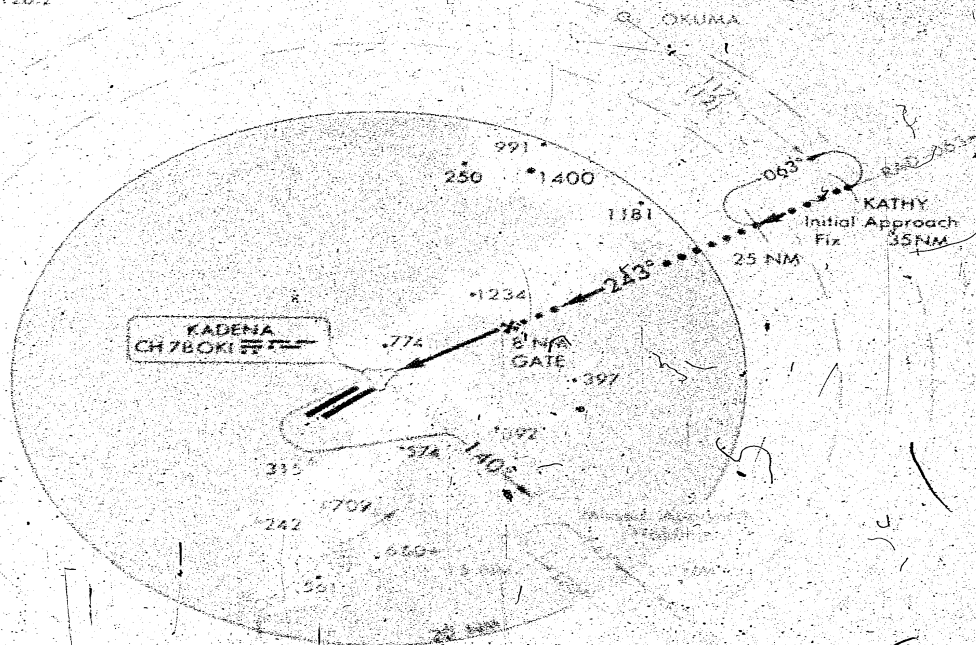
# KADENA

## TACAN-2 RWY 23

JAL 1457 (USAF)

KADENA AB  
KADENA, OKINAWA I., RYUKYU ISLANDS

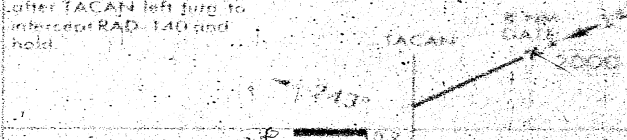
OKINAWA APP CON  
255.4 135.9  
KADENA TOWER  
315.5 236.6 126.2  
GND CON  
275.8  
PAR/ASR



TA 18.000  
EMPRC SAFE ALT 100 NM 2700

### MISSED APPROACH

At TACAN climb on  
243 to 2000. At 5.0 NM  
after TACAN left turn to  
intercept RAD-140 and  
hold.



LANDING MINIMA	
Visibility	600 MSL
Clouds	800 MSL

\*Circling to East only

NON SAFE ALT 15 NM 2600

### PROCEED 142

Run 258 12:00 local  
12:00 Run 081  
12:00 Run 081  
12:00 Run 081



## TACAN-2 RWY 23

23°21'N 127°48'E  
90KADENA AB  
KADENA, OKINAWA I., RYUKYU ISLANDS

# KADENA

5  
KADENA AB  
KADENA, OKINAWA I. RYUKYU ISLANDS

OKINAWA APP CON  
255.4 135.9  
KADENA TOWER  
315.8 236.6 125.2  
GND CON  
275.8  
PAR 158

OKUMA  
138.0  
170.0

250 991  
1400 1181  
1234  
774  
397  
392  
374  
313  
709  
242  
561  
650  
20 NM

KADENA  
CH78 OKI

LOCALIZER  
109.7 KDN  
Glide Slope 333.2

MM  
10 NM  
GATE

BONNIE  
Initial Approach  
Fix 40 NM

234  
055  
215  
50 NM

OKINAWA  
100 OK

TA 18,000  
EMERG SAFE ALT 100 FWA 2700

BONNIE  
RAD-235  
40 NM  
FL 200  
054  
1500  
Glide Slope 2.50%

AT MIN ALT 100 FWA 2700  
GET TACAN right hand intersection RAD-235 30 NM  
Hold  
10 NM  
GATE

APPROACH  
FL 200  
142

Runway 235 DO over  
Runway 235 DO over  
Runway 235 DO over  
Runway 235 DO over

AG 1  
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AG 100  
1.8

LANDING MINIMA			
Str-in-RS	342 MSL	300 MSL	200 MSL
Str-in-TACAN	400 MSL	300 MSL	200 MSL
* Circling	800 MSL	700 MSL	600 MSL

\* Circling to East only

23. 2. 1972

KADENA AB

# KADENA



# KADENA

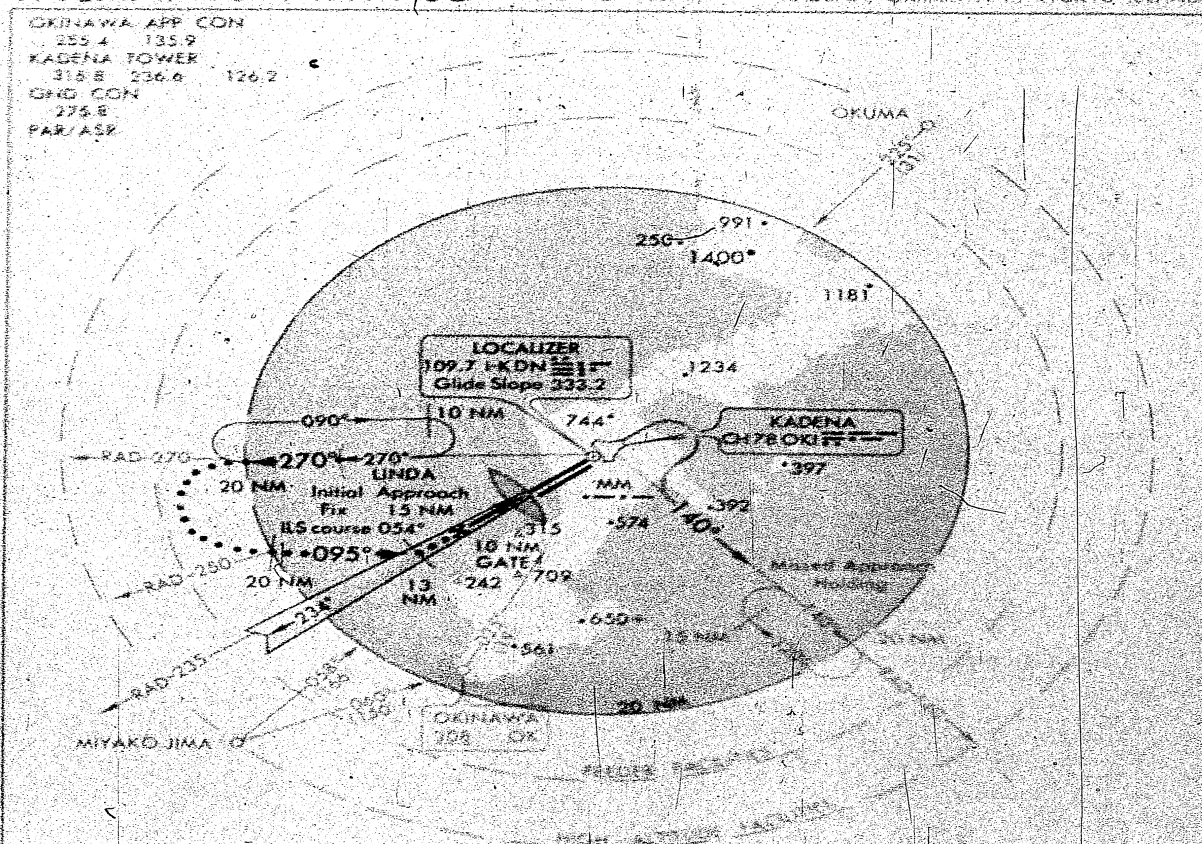
TACAN/ILS-4 RWY 05

JAL JAS7 (USAF)

KADENA, OKINAWA I. RYUKYU ISLANDS

KADENA AB

OKINAWA APP CON  
255.4 135.9  
KADENA TOWER  
315.8 236.0 126.2  
GND CON  
275.8  
PAR/ASR



TA 18,000  
EMERG SAFE ALT 100 NM 2700

Left turn remain within 30 NM  
12,000  
RAD 270  
RAD 250  
RAD 235  
095°  
4000  
20 NM  
13 NM  
2000  
1500  
10 NM  
GATE  
054°  
Glide Slope 2.50°

MISSILE APPROACH  
AFM: AR climb to 15,000  
20 NM after TACAN right turn  
intercept RAD 140° and hold

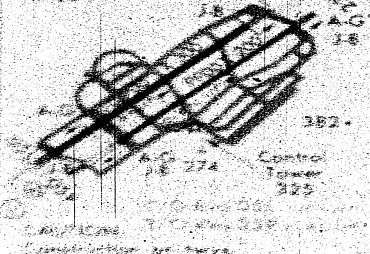
MIN SAFE ALT 25 NM 2600

FIELD ELEV 142

Every 200 12,100' and  
1000' over Hwy 051  
considered two  
for IFR

LANDING MINIMA		
Str-in-ILS	342 MSL	2000 ft RWY 05
Str-in-TACAN	400 MSL	3000 ft
*Circling	800 MSL	700 ft

\*Circling to East only



TACAN/ILS-4 RWY 05

JAL JAS7 (USAF)

KADENA, OKINAWA I. RYUKYU ISLANDS

KADENA AB

# KADENA



QTH 147A APP COM  
 135.4 135.9  
 WATER TOWER  
 232.4 235.6  
 126.7 128.1  
 QND COM  
 282.6  
 FAX APP

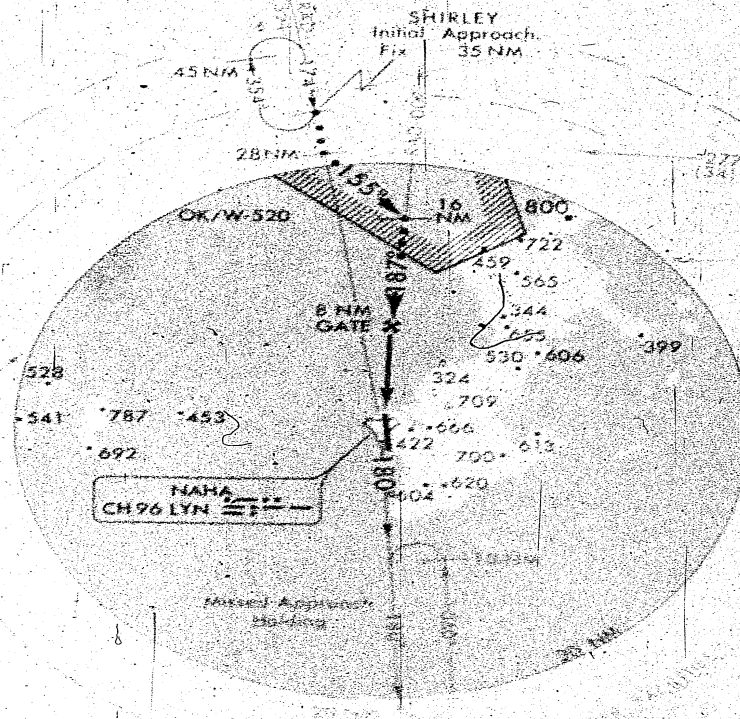
156

SA, LBS, USAF

NAHA AB

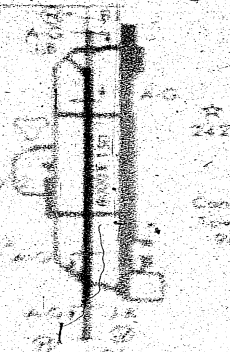
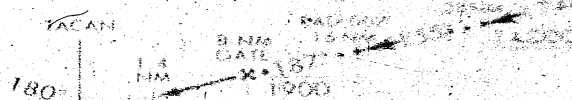
NAHA, OKINAWA 1, 2/25/50 15

SHIRLEY  
 101 Approach  
 35 NM



DATE SENT 11-25-74 2200

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NAHA

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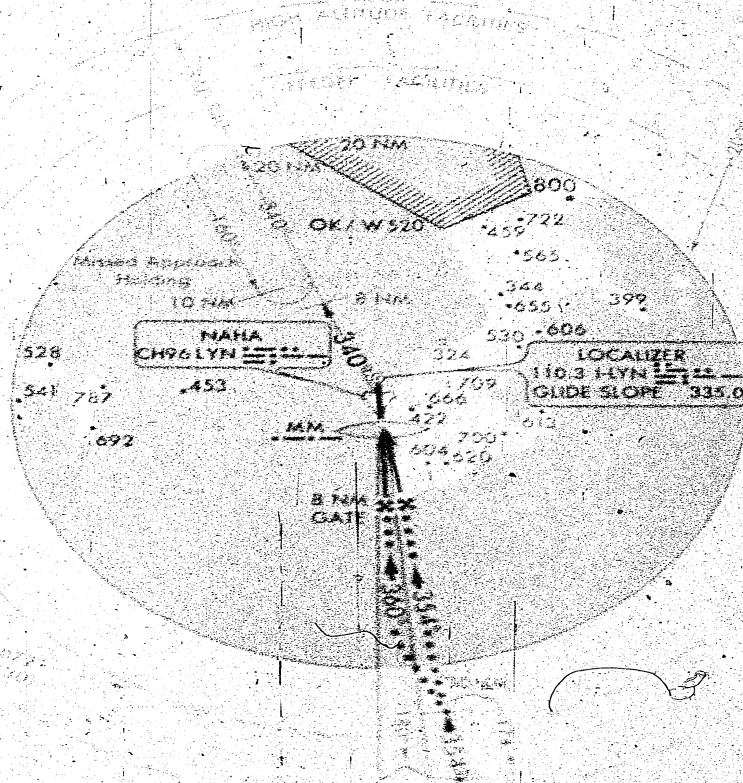
## TACAN/ILS RWY 36-1

JAL 4738 (USAF)

NAHA AB

NAHA, OKINAWA I., RYUKYU IS.

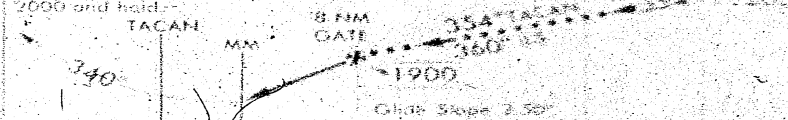
OKINAWA APP CON  
 352.4 135.9  
 NAHA TOWER  
 308.5 334.5  
 125.3 118.1  
 GND CON  
 224.2  
 FAP, ASX



TATB000

EMERG SAFE ALT 100 NM 2700

MISSED APPROACH  
 1.7 NM prior to TACAN, left turn climb on  
 RAD 340 to 1000 until 8 NM fix, climb to  
 2000 and hold.

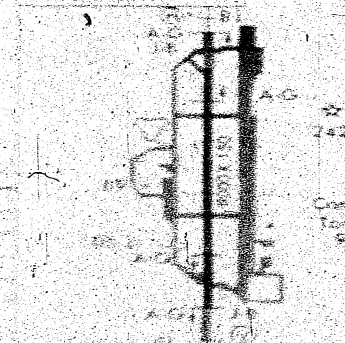


LANDING MINIMA	
Strm-ILS	314 MSL
Strm-TACAN	500 MSL
Circling <sup>1</sup>	600 MSL
Strm-LOC	400 MSL

<sup>1</sup> Circling to West only.

MINI SAFE ALT 35 NM 2200

FIELD ELEV 14



## TACAN/ILS RWY 36-1

JAL 4738 (USAF)

NAHA AB

# NAHA

NAHA AB  
FEBRUARY 1968

WFOV SAFE AET 25 NM 2200

五、六、七、八

# NAHA





TAKHLI A/D  
TAKHLI, THAILAND

1947-1948 1949-1950 1951-1952 1953-1954 1955-1956 1957-1958 1959-1960 1961-1962 1963-1964 1965-1966 1967-1968 1969-1970 1971-1972 1973-1974 1975-1976 1977-1978 1979-1980 1981-1982 1983-1984 1985-1986 1987-1988 1989-1990 1991-1992 1993-1994 1995-1996 1997-1998 1999-2000 2001-2002 2003-2004 2005-2006 2007-2008 2009-2010 2011-2012 2013-2014 2015-2016 2017-2018 2019-2020 2021-2022 2023-2024 2025-2026 2027-2028 2029-2030 2031-2032 2033-2034 2035-2036 2037-2038 2039-2040 2041-2042 2043-2044 2045-2046 2047-2048 2049-2050 2051-2052 2053-2054 2055-2056 2057-2058 2059-2060 2061-2062 2063-2064 2065-2066 2067-2068 2069-2070 2071-2072 2073-2074 2075-2076 2077-2078 2079-2080 2081-2082 2083-2084 2085-2086 2087-2088 2089-2090 2091-2092 2093-2094 2095-2096 2097-2098 2099-2100 2101-2102 2103-2104 2105-2106 2107-2108 2109-2110 2111-2112 2113-2114 2115-2116 2117-2118 2119-2120 2121-2122 2123-2124 2125-2126 2127-2128 2129-2130 2131-2132 2133-2134 2135-2136 2137-2138 2139-2140 2141-2142 2143-2144 2145-2146 2147-2148 2149-2150 2151-2152 2153-2154 2155-2156 2157-2158 2159-2160 2161-2162 2163-2164 2165-2166 2167-2168 2169-2170 2171-2172 2173-2174 2175-2176 2177-2178 2179-2180 2181-2182 2183-2184 2185-2186 2187-2188 2189-2190 2191-2192 2193-2194 2195-2196 2197-2198 2199-2200 2201-2202 2203-2204 2205-2206 2207-2208 2209-2210 2211-2212 2213-2214 2215-2216 2217-2218 2219-2220 2221-2222 2223-2224 2225-2226 2227-2228 2229-2230 2231-2232 2233-2234 2235-2236 2237-2238 2239-2240 2241-2242 2243-2244 2245-2246 2247-2248 2249-2250 2251-2252 2253-2254 2255-2256 2257-2258 2259-2260 2261-2262 2263-2264 2265-2266 2267-2268 2269-2270 2271-2272 2273-2274 2275-2276 2277-2278 2279-2280 2281-2282 2283-2284 2285-2286 2287-2288 2289-2290 2291-2292 2293-2294 2295-2296 2297-2298 2299-2300 2301-2302 2303-2304 2305-2306 2307-2308 2309-2310 2311-2312 2313-2314 2315-2316 2317-2318 2319-2320 2321-2322 2323-2324 2325-2326 2327-2328 2329-2330 2331-2332 2333-2334 2335-2336 2337-2338 2339-2340 2341-2342 2343-2344 2345-2346 2347-2348 2349-2350 2351-2352 2353-2354 2355-2356 2357-2358 2359-2360 2361-2362 2363-2364 2365-2366 2367-2368 2369-2370 2371-2372 2373-2374 2375-2376 2377-2378 2379-2380 2381-2382 2383-2384 2385-2386 2387-2388 2389-2390 2391-2392 2393-2394 2395-2396 2397-2398 2399-2400 2401-2402 2403-2404 2405-2406 2407-2408 2409-2410 2411-2412 2413-2414 2415-2416 2417-2418 2419-2420 2421-2422 2423-2424 2425-2426 2427-2428 2429-2430 2431-2432 2433-2434 2435-2436 2437-2438 2439-2440 2441-2442 2443-2444 2445-2446 2447-2448 2449-2450 2451-2452 2453-2454 2455-2456 2457-2458 2459-2460 2461-2462 2463-2464 2465-2466 2467-2468 2469-2470 2471-2472 2473-2474 2475-2476 2477-2478 2479-2480 2481-2482 2483-2484 2485-2486 2487-2488 2489-2490 2491-2492 2493-2494 2495-2496 2497-2498 2499-2500 2501-2502 2503-2504 2505-2506 2507-2508 2509-2510 2511-2512 2513-2514 2515-2516 2517-2518 2519-2520 2521-2522 2523-2524 2525-2526 2527-2528 2529-2530 2531-2532 2533-2534 2535-2536 2537-2538 2539-2540 2541-2542 2543-2544 2545-2546 2547-2548 2549-2550 2551-2552 2553-2554 2555-2556 2557-2558 2559-2560 2561-2562 2563-2564 2565-2566 2567-2568 2569-2570 2571-2572 2573-2574 2575-2576 2577-2578 2579-2580 2581-2582 2583-2584 2585-2586 2587-2588 2589-2590 2591-2592 2593-2594 2595-2596 2597-2598 2599-2600 2601-2602 2603-2604 2605-2606 2607-2608 2609-2610 2611-2612 2613-2614 2615-2616 2617-2618 2619-2620 2621-2622 2623-2624 2625-2626 2627-2628 2629-2630 2631-2632 2633-2634 2635-2636 2637-2638 2639-2640 2641-2642 2643-2644 2645-2646 2647-2648 2649-2650 2651-2652 2653-2654 2655-2656 2657-2658 2659-2660 2661-2662 2663-2664 2665-2666 2667-2668 2669-2670 2671-2672 2673-2674 2675-2676 2677-2678 2679-2680 2681-2682 2683-2684 2685-2686 2687-2688 2689-2690 2691-2692 2693-2694 2695-2696 2697-2698 2699-2700 2701-2702 2703-2704 2705-2706 2707-2708 2709-2710 2711-2712 2713-2714 2715-2716 2717-2718 2719-2720 2721-2722 2723-2724 2725-2726 2727-2728 2729-2730 2731-2732 2733-2734 2735-2736 2737-2738 2739-2740 2741-2742 2743-2744 2745-2746 2747-2748 2749-2750 2751-2752 2753-2754 2755-2756 2757-2758 2759-2760 2761-2762 2763-2764 2765

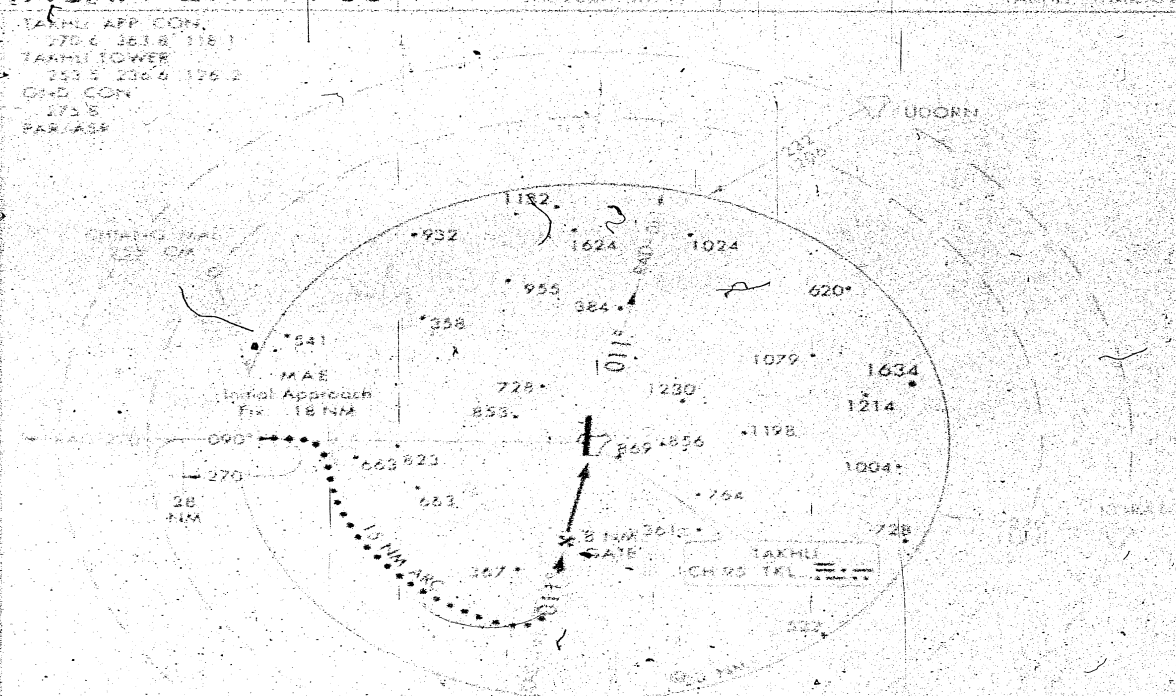
2021年10月10日

# TAKHLI

TAMIL APP CON.  
 1704 1612 1181  
 TAMIL TOWER  
 1515 1266 1452  
 G-2 CON  
 1715  
 PARLASS

196  
JAN 20 1967

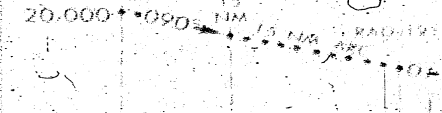
TAKHLI A/D  
TAKHLI ISLAND



May 20 1968 23 44A 3700

RECEIVED  
FEB 19 1964  
U.S. AIR FORCE

1940



## Discussion

400 ASI

~~TACAN-2 RWY 36~~

**TAKHLI**



T'AO YUAN, TAIWAN, REP. OF CHINA



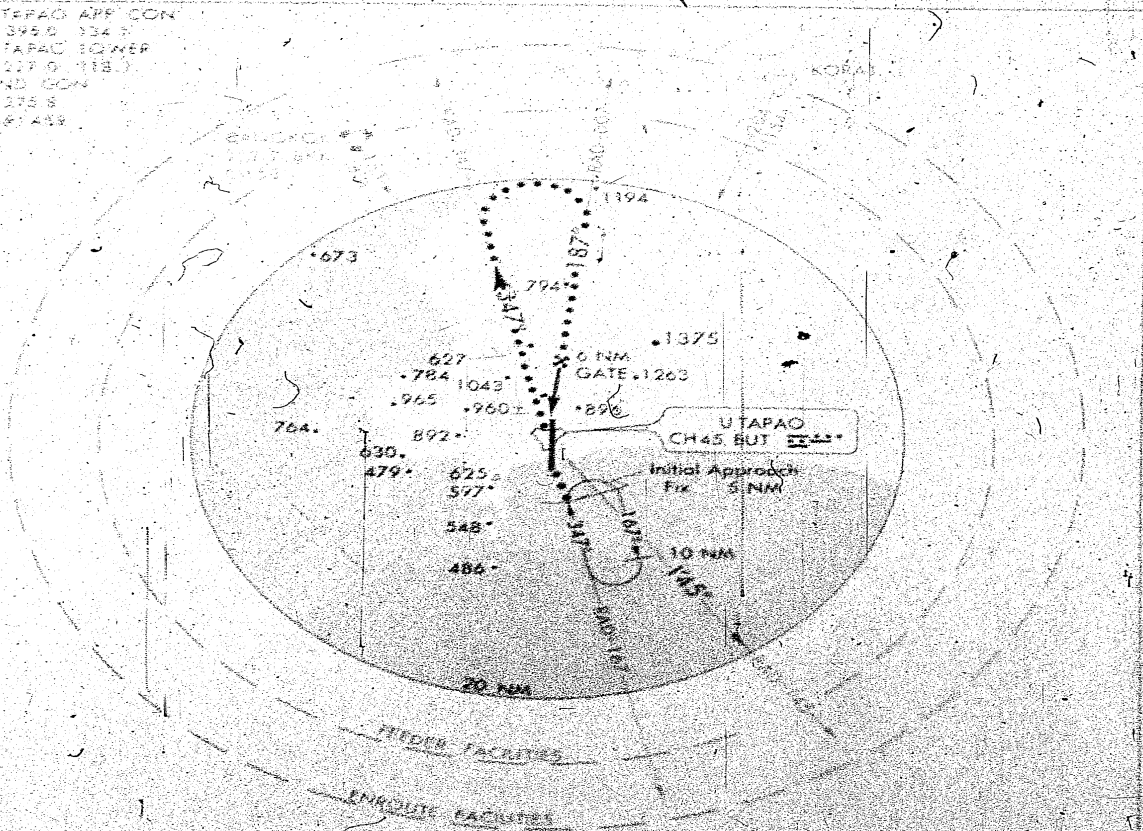
TAOYUAN

# TACAN-2 RWY 18

JAL 2672 (USAF)

UTAPAO A/D  
UTAPAO CHANGWAT RAYONG (THAILAND)

UTAPAO APP CON  
345.0 134.3  
UTAPAO TOWER  
117.9 118.0  
RAD CON  
275.8  
PAR 145.9



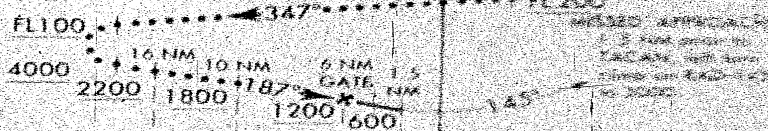
EMERG SAFE ALT 100 NM 7600

MIN SAFE ALT 25 NM 3400

Right turn remain within 20 NM.

RAD 187  
TACAN 3 NM  
FL 200

FIELD ELEV 59



LANDING MINIMA	
Straight-in	600 MSL
Circling	NOT AUTHORIZED

CAUTION  
Construction



TACAN-2 RWY 18

12°41' N 101°04' E  
213

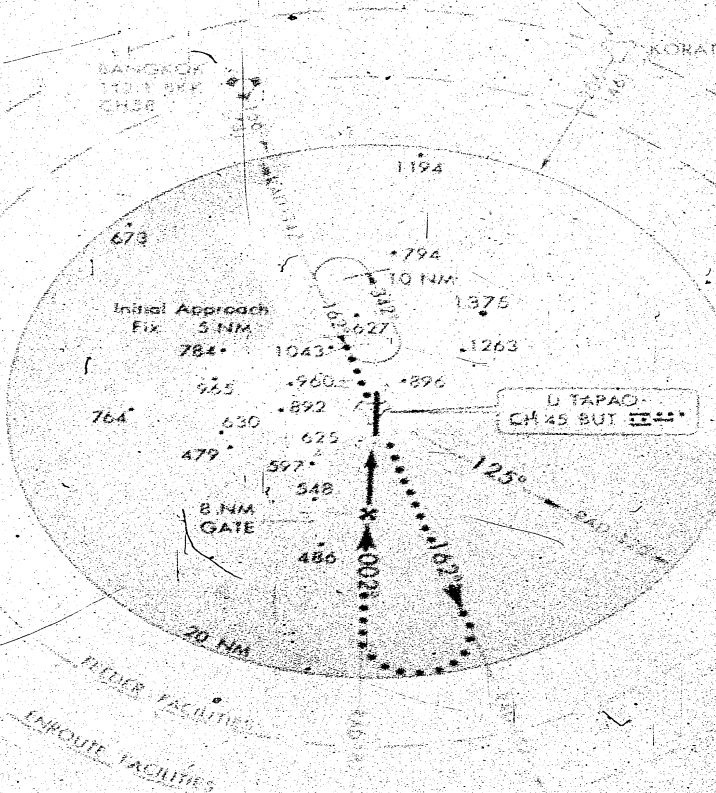
UTAPAO A/D

## U TAPAO

## TACAN-2 RWY 36

214  
JAL 2672 (USAF)U TAPAO A/D  
U TAPAO, CHANGWAT RAYONG, THAILAND

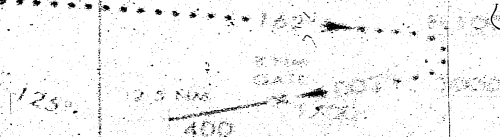
U TAPAO APP CON  
395.0 134.1  
U TAPAO TOWER  
123.0 118.1  
GND CON  
175.8  
FAS/ASS



EMERG SAFE ALT 100 NM 7600

RAD 342  
5 NM TACAN  
FL 200

MISSED APPROACH  
2.5 NM prior to TACAN  
right turn, climb on 342  
125 to 3000 within  
20 NM



LANDING MINIMA

Straight in	400 MSL
Circling	NOT AUTHORIZED

TACAN-2 RWY 36

123.0 118.1 175.8

U TAPAO A/D  
U TAPAO, CHANGWAT RAYONG, THAILAND

U TAPAO



**TACAN-4 RWY 18**

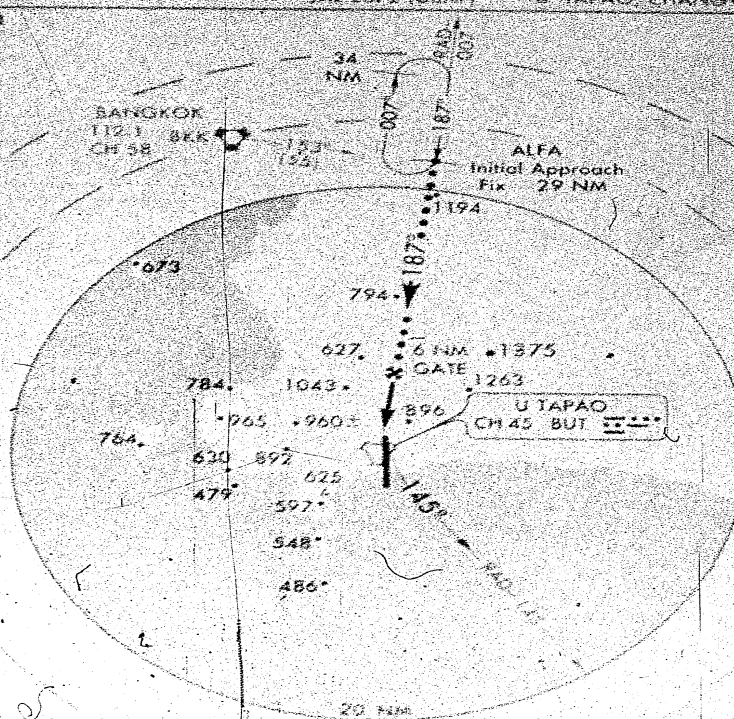
JAL 3572 (USAF)

**U TAPAO A/D**  
U TAPAO, CHANGWAT RAYONG, THAILAND

U TAPAO APP CON  
293.6 114.1  
U TAPAO TOWER  
227.8 118.1  
GND CON  
275.8  
PAR/ASR

BANGKOK  
112.1  
CH 38

ALFA  
Initial Approach  
Fix 29 NM

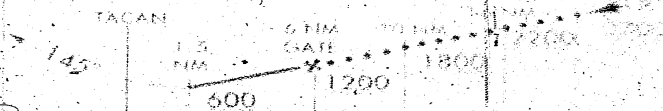


EMERG SAFE ALT 100 NM 7600

MISSED APPROACH  
5 NM prior to TACAN 180 NM  
climb on RAD-145 to 3000

MIN SAFE ALT 25 NM 3400

TEND 134 59



LANDING MINIMUM

600 MSL

NOT ATTACHED

**TACAN-4 RWY 18****U TAPAO**

**THE END**

**ROUTE** \_\_\_\_\_

**STRIP** \_\_\_\_\_

**STOP**

**REWIND**



**TOP SECRET**

29 OCT 67

F251

6733

FND

29 OCT 67

F251

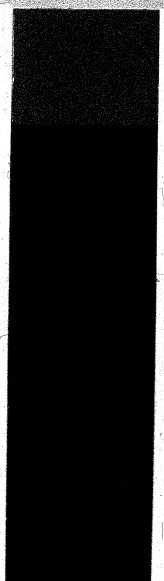
6733

FND

# AV SCALE

SERIES V

Frequency (cycles/inch)	1.00	1.30	1.60	1.90
Resolution (lines/mm)				



KODAK GI

Red-Filter Negative Cyan Printer



.00 .10 .20 .30 .50